

Output Ratings

Generating Set Model	P635P1	P700E1
380-415V, 50 Hz	635 kVA 508 kW	700 kVA 560 kW

Ratings at 0.8 pf

Ratings Definitions

Prime Power – Model P635P1

These ratings are applicable for supplying continuous electrical power (at variable load) in lieu of commercially purchased power. There is no limitation to the annual hours of operation and this model can supply 10% overload power for 1 hour in 12 hours.

Standby Power – Model P700E1

These ratings are applicable for supplying continuous electrical power (at variable load) in event of a utility power failure. No overload is permitted on these ratings. The alternator on this model is peak continuous rated (as defined in ISO8528-3).

Technical Data

Engine Model:	Perkins 2806C-E18TAG2
Alternator Model:	LL7024H
Number of Cylinders:	6 in-line
Cubic Capacity: Litres (cu.in)	18.1 (1106)
Bore/Stroke: mm (in)	145 (5.7) / 183 (7.2)
Compression ratio:	14.5:1
Aspiration:	Turbocharged
Frequency:	50 Hz
Engine Speed:	1500 RPM
Gross Engine Power: kW (hp)	607 (814)
BMEP: kPA (psi)	2678 (388)
Piston Speed: m/sec (ft/sec)	9.0 (29.5)
Fuel Tank Capacity: Litres (US Gal)	1350 (357)
Fuel Consump, P635P1: 1/hr (USg/hr)	125.0 (33.0)
Fuel Consump, P700E1: 1/hr (USg/hr)	140.2 (37.0)
Heat Rejection to Exhaust System: kW (Btu/min)	TBA
Heat Rejection to Cooling System: kW (Btu/min)	TBA
Total Radiated Heat: kW (Btu/min)	TBA
Exhaust Temperature: °C (°F)	563 (1045)
Radiator Cooling Air Flow: m ³ /min (cfm)	660 (23308)
Combustion Air Flow: m ³ /min (cfm)	43.0 (1519)
Exhaust Gas Flow: m ³ /min (cfm)	123 (4344)

Note: Standard reference conditions 27°C (80°F) Air Inlet Temp, 152.4m (500ft) A.S.L. 60% relative humidity. All engine performance data based on the above mentioned maximum continuous ratings. Fuel consumption data at full load with diesel fuel with specific gravity of 0.85 and conforming to BS2869: 1998, Class A2.

Dimensions and Weights

Length: mm (in)	Width: mm (in)	Height: mm (in)	Dry: kg (lb)	Wet: kg (lb)
4111 (162)	1536 (60.5)	2098 (83.0)	4800 (10582)	4870 (10736)
Dry = With Lube Oil		Wet = With Lube Oil and Coolant		

Generating set pictured may include optional accessories



P635P1 – P700E1



FG Wilson (Engineering) Ltd
 Old Glenarm Road, Larne, County Antrim BT40 1EJ
 Northern Ireland, United Kingdom
 Tel: +44 (0) 28 2826 1000 Fax: +44 (0) 28 2826 1111
www.FGWilson.com

